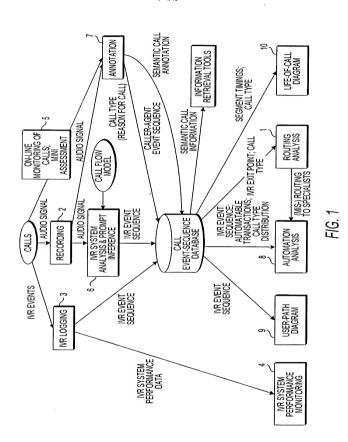
, 1/43



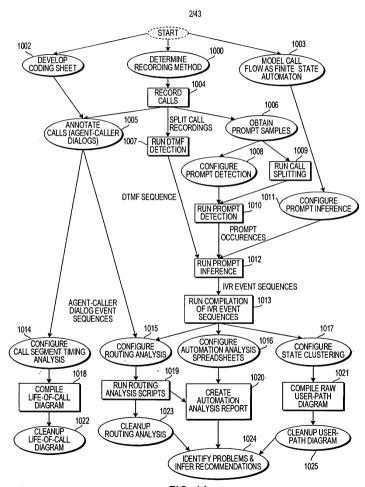
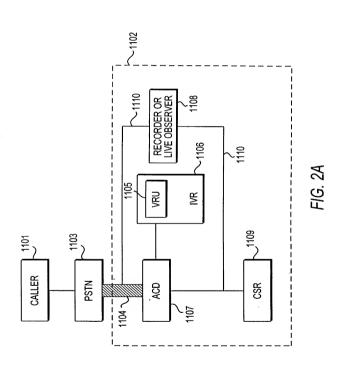
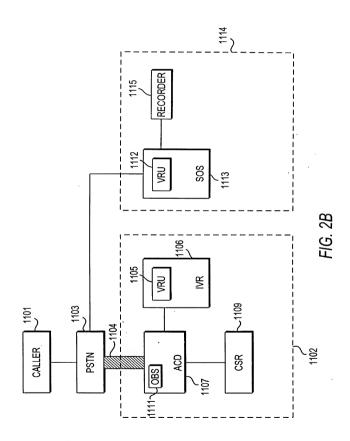
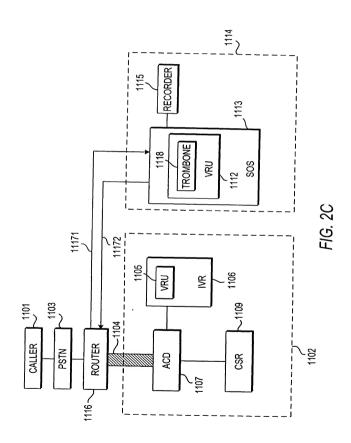


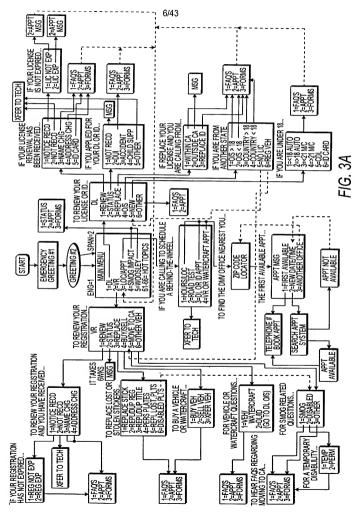
FIG. 1A



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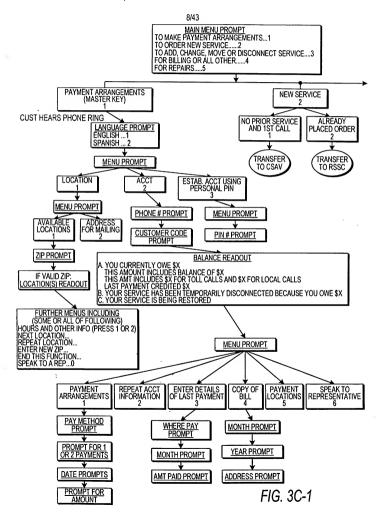


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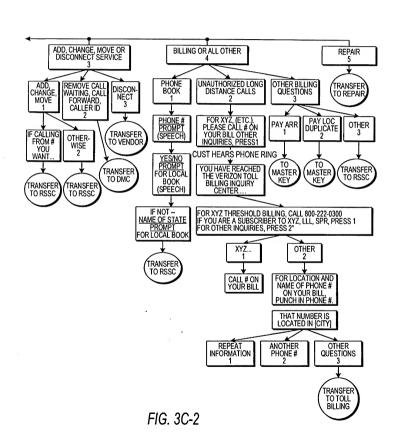
FIG. 3C-1 FIG. 3C-2

FIG. 3B

01-4004A; Patrick Peterson et all (1000) The Control of Control of



01-4004A; Patrick Peterson et al. 「人名明明 中華 新聞 名明 APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US



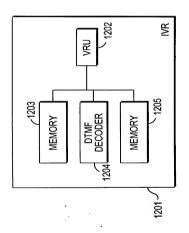


FIG. 3D

01-4004A; Patrick Peterson et al. ALIGNIESSO - OSONOS OPPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

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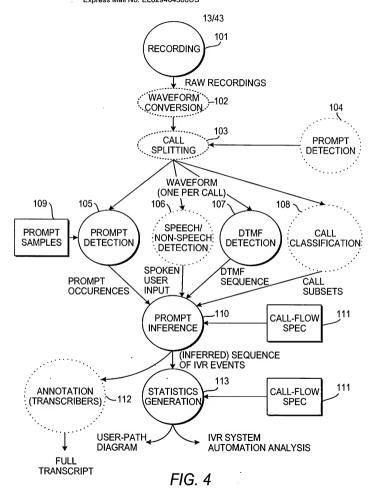
STATE	TIME	OUTCOME
CALL ARRIVAL	##:##:##	DATE; CALLER IDENTIFICATION
INITIAL MENU	#:#:#	TOUCH TONE SELECTION, E.G., 3
TELEPHONE NUMBER PROMPT	#:#:#	TOUCH TONE NUMBERS PRESSED, E.G., 617-555-1212
VALIDATE TELEPHONE NUMBER	#:#:#	INVALID NUMBER
TELEPHONE NUMBER RE-PROMPT	##:##:##	TOUCH TONE NUMBERS PRESSED
VALIDATE TELEPHONE NUMBER	##:##:##	VALID NUMBER
MENU 1	##:##:##	TOUCH TONE SELECTION
QUERY A	##:##:##	TOUCH TONE NUMBERS PRESSED
QUERY B	##:##:##	TOUCH TONE NUMBERS PRESSED
MENU 2	##:##:##	TOUCH TONE SELECTION
TRANSFER TO AGENT	##:##:##	TRANSFER QUEUE (CALLER ON HOLD)
IVR END	##:##:##	TRANSFER COMPLETED

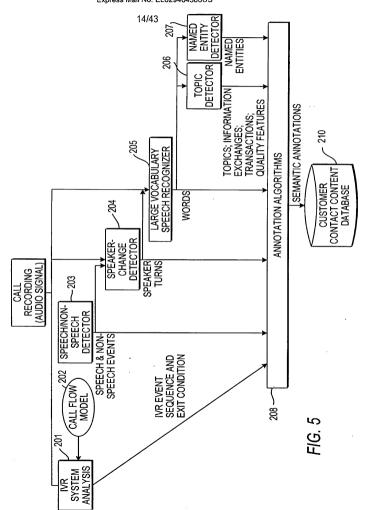
FIG. 3F

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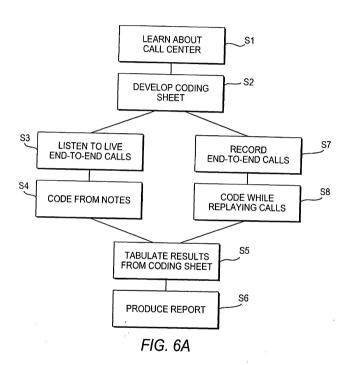
CITION	TIME	STATE	SMOOTIO
212-123-4567	#,##	CALL ARRIVAL	DATE
212-123-4567	#,#,#	INITIAL MENU	TOUCH TONE SELECTION
212-123-4567	#,##,##	ACCOUNT NO. PROMPT	TOUCH TONE NUMBERS PRESSED
212-123-4567	#,#,#	VALIDATE NUMBER	INVALID
212-123-4567	#,##	ACCOUNT NO. RE-PROMPT	ACCOUNT NO. RE-PROMPT CALL TERMINATED BY CALLER
201-321-4567	#,##,##	CALL ARRIVAL	DATE
201-321-4567	##'##	INITIAL MENU	TOUCH TONE SELECTION
201-321-4567	##'##	ACCOUNT NO. PROMPT	TOUCH TONE NUMBERS PRESSED
201-321-4567	##'##	VALIDATE NUMBER	VALID
201-321-4567	##'##	MENU 1	TOUCH TONE SELECTION
201-321-4567	##'##	TRANSFER TO AGENT	TRANSFER COMPLETED
617-987-6543	##'##	CALL ARRIVAL	DATE
617-987-6543	-	-	
617-987-6543	##,##	ACCOUNT BALANCE	INFORMATION DELIVERED
617-987-6543	##,##	MENU 3	TOUCH TONE ELECTION
617-987-6543	#'##'#	TRANSFER TO AGENT	TRANSFER QUEUE (CALLER ON HOLD)
617-987-6543	#,#,#	IVR END	CALL TERMINATED BY CALLER

FIG. 3F





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01-4004A; Patrick Peterson et al. ILOUGINAS - GSCHOZ
APPARATUS AND METHOD FOR ANALYZING ROUTING
OF CALLS IN AN AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404386US

FIG. 6B

FIG. 6B-1	
FIG. 6B-2	
FIG. 6B-3	
FIG. 6B-4	

01-4004A; Patrick Peterson et al. 10090230 030402 APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

17/43 BILLING, OTHER OTHER 2021234567 7181234567 5161234567 9.46.48 M-130 7321234567 REPAIR ₩71 9181234567 14:50:41 BILLING OTHER D 9731234567 M 12:41 PM 0 INVALID 2:21 PM 10 2:40 PM 12/17/1996 3.1 PHONE NO RING 12:03 PM 10 YJT 12/14/1996 1 HANGUP 1:58 PM INTEGRATION OF INTEGRATION (MAGENT HOW)

SECONG THE FOR THE CALL WHOLE MIN)

DIRATION OF INTERACTION MAGENT HOS SECONG THE CALL WHOLE MIN)

DIRATION OF INTERACTION MAGENT HOS SECONG THE CALL WHOLE MIN)

DIRATION OF INTERACTION HOSE MAGENT HOW THE SUMMARY MAEND CHORGES IN WAS SUMMARY MAEND CHORGES IN CONTROL OF THE SUMMARY MAEND HOW THE THOUGHT ARE CHRENTLY ARANDON AT STATE BUSING THE REMAINS ARE CHRENTLY HAS MOON AT PHONE THOUGHT AND THE PROME THE MAGENT HOW THE MAGE

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																			ONEW SVC ONEW SVC A SSIGNED A SVE SVE ONEC CITE COME
																			CALLER THOUGHT I LEASING A PHONE COSTS MONEY A STANDARD
																			CALLER THOUGHT IT SYSTEM AND SERVICE RECONSISTEM AND SERVICE PROPERTY OF THE WEBS OF THOUGHT IN WEBS OF THOUGHT IN WEBS OF THE STORY OF
							1												COENCE OF THE CO
																			WINTERPOWER TO THE PROPERTY OF
																			WAGEN LAND ORDICALING
																			MANANA MA
2 NEW SERVICE - FOLLOW-UP	2 ADD/REMOVE	-3 DISCONNECT	-1 BILLING/PHONE DIRECTORY	-2 BILLING/UNAUTHORIZED CALLS	-3-1 BILLING/OTHER/PAY/MASTER K	-3-2 BILLING/OTHER/MASTER KEY	3-3 BILLING/OTHER/OTHER	REPAIR (REPAIR CENTER)	2 (SPANISH)	VDICATE FUNCTIONS COMPLETED IN IVRI	AYMENT CENTER LOCATION	AYMENT CENTER HOURS	AYMENT MAILING ADDRESS	SCOUNT INFORMATION	STABLISH ACCE USING PIN	AYMENT ARRANGEMENTS	NTER DETAILS OF LAST PAYMENT	OPY OF BILL	PROBLEM + SOUTHON) COULD THIS HAVE BEEN DONE IN MAYIB AGENT PERFORMANTIONATED FANCTIONS: 10 PAYMENT CENTER HOCATION PAYMENT CENTER HOCATION PAYMENT CENTER HOCATION PAYMENT CENTER HOCATION PAYMENT HIN AGENCES COOUNT IN CARRACTED FANCE HOURS FANCE IN ARRACTED FOR SOUTH HOCATIONS ENTER THE PAYMENT FOR THE PAYMENT COOPY OF BILL. LACENT DO POLENIALIY AUTOFUNCTONS 17

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INDICATE WHICH ONES!	GET VOICE MAIL ACCESS #	GET 3 + 2 DIGIT NUMBER ON BILL	GET INFO ON RATES-BY MAIL OR SEE DIRECT.	GET ADDRESS FOR WRITING TO REFUTE BILL	OTHER: (POTENTIALLY AUTOMATABLE)	III. DID AGEN I DO NON-AUTOMATED FUNCTIONS?	[INDICATE WHICH ONES]	PAYMENT ARRANGEMENTS	NEW SERVICE: EXPLAINS 2 PARTS NEEDED	NEW SERVICE FOLLOW UP (NOT DISCONNECT)	CHECK ON STATUS OF PENDING ORDER	SALES (PKGS, SERVICES, LINES, JACKS, ETC)	SALES (REMOVE FEATURE- AGENT AKS WHY)	DISCONNECT (AND FORWARD CALLS)	EXPLAIN BILL	REMOVE UNAUTHORIZED CALL FROM BILL	REMOVE OTHER CHARGES FROM BILL	CONFIRM TODAY'S REPAIR SCHEDULE	SCHEDULE A VISIT WITH REPAIRMAN	TELL HOWMHEN TO USE FEATURES THEY OWN	OTHER	WAS THIS CALL CODED AROVE?	DID AGENT SEE CALL AS MISDIRECTED?	JID AGENT TRANSFER THE CALL?	V. IF TRANSFERRED. TO WHAT DESTINATION?	300-281-8584 MASTER KEY	300-275-2355 REPAIR	800-287-9933 COLLECTION CENTER	800-870-01000 SERVICE SOLUTIONS		888-243-9733 TOLL BILLING	800-246-2800 UNLAWFUL CALL SOL CTR	800-585-6127 INSTALLATION HOTLINE	377-525-2375 DSL	800-427-9977 "BUSINESS OFFICE"	JMC	NEW SERVICE FOLLOWUP	JISCONNECT	FELL HOW TO USE FEATURES	WELCOME CENTER	BUSINESS ACCOUNTS	FIG. 6B-3

01-4004A; Patrick Peterson et al. LUPP FOR AU ... US 04 CE APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

FIG. 6C

FIG. 6C-1
FIG. 6C-2
FIG. 6C-3
FIG. 6C-4

01-4004A; Patrick Peterson et al. ALIGNMENTO *CEQUAGE APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

_	22/43			
L	Α	С	D	_E
1	CALL NUMBER	ALL CALLS STATISTICS		
2_	TRANSCRIBER			
3	DATE:			
4	PHONE #:			
5	SEX OF CALLER:			
6	CLOCK TIME (END OF INTERACTION)			
7	DURATION OF INTERACTION (WHOLE MIN)	5.123042506	0%	
8	DURATION OF ENTIRE CALL (WHOLE MIN)	7.548098434	0%	
9	WAS THIS A FULLY AUTOMATED CALL?	14	3%	
	DID CALL INVOLVE AN AGENT?	339	447	_
11	DID CALL INVOLVE AN AGENT!	339	447	
	IVE CUMMARY: (MENU CUCICEC)	- 		
12	IVR SUMMARY: (MENU CHOICES)	0	0%	_
	(USE WORDS: "PHONE #" "RING" "FAST BUSY"	0	0%	
	"HANG UP" "ROTARY"	0	0%	
15				
	DID CALLER TRY 0 AND FAIL?	30	7%	
	WAS CALL INCOMPLETE (O FUNCTIONS?)	94	21%	l
	[IF 1, INDICATE WHICH ONE APPLIES]	0	0%	
	ABANDON AT START OF IVR (RINGING OR INTRO)	0	. 0%	
20	ABANDON AT PHONE # PROMPT	4	1%	
21	ABANDON AT CUSTOMER ID PROMPT	2	0%	
22	ABANDON AT PROMPT	22	5%	
	ABANDON WHILE RINGING FOR AGENT	2	0%	
	ABANDON AT "ALL OUR AGENTS ARE CURRENTLY"	4	1%	
	ABANDON AT FAST BUSY OR SYSTEM BUG	14	3%	
	UNUSUALLY HEAVY CALL VOLUMES	17	4%	
	OTHER:	29	6%	
	WHERE IN IVR DID THEY ABANDON			
	1 MASTERKEY	20	4%	
	2 NEW SERVICE	3	1%	
	3 ADD/CHANGE	13	3%	
	4 BILLING/OTHER	12	3%	
		2	0%	
	5 REPAIR	18	4%	
	OTHER	-	4 70	
35			0%	
36	[IF CALLER GOT TO AN AGENT, HOW?]	0		
	BY ROTARY PHONE (0 TONES PRESSED)?	62	14%	
	BY AUTO TRANSFER BASED ON PHONE NUMBER?	0	0%	
	THROUGH INTRODUCTION BY PREVIOUS AGENT?	. 0	0%	
	IN IVR THROUGH IVALID/TIMEOUT?	28		
	IN IVR, THROUGH A VALID NONZERO TRANSFER?	228		
42	BY PRESSING "0"	19		
43	OTHER (DIDN'T CATCH IT)	2	0%	
44	INDICATE MENU CHOICES MADE IN IVR	0		
	1. PAY ARRANGMENTS (MASTER KEY)	12		
	2-1 ORDER NEW SERVICE (WELCOME CENTER)	28	6%	
	2-2 NEW SERVICE - FOLLOW -UP	37	8%	
	3-1 ADD/ADD	64	14%	
	3-2 ADD/REMOVE	12		
170	10 L 1 10011 1-1110 1-	1		

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20/40			
A	C	D	E
50 3-3 DISCONNECT	11	2%	
51 4-1 BILLING/PHONE DIRECTORY	1	0%	
52 4-2 BILLING/ UNAUTHOURIZED CALLS	11	2%	
53 4-3-1 BILLING/OTHER/PAY/MASTER K	3	1%	
54 4-3-2 BILLING/OTHER/MASTER KEY	11	2%	
55 4-3-3 BILLING/OTHER/OTHER	71	16%	
56 5 REPAIR (REPAIR CENTER)	14	3%	
57 1-2 (SPANISH)	1	0%	
58 [INDICATE FUNCTIONS COMPLETED IN IVR]	- 	0%	
59 PAYMENT CENTER LOCATION	3	1%	
60 PAYMENT CENTER HOURS	3	0%	
61 PAYMENT MAILING ADDRESS			
	2	0%	
62 ACCOUNT INFORMATION	14	3%	
63 ESTABLISH ACCT USING PIN	0	0%	
64 PAYMENT ARRANGEMENTS	1	0%	
65 ENTER DETAILS OF LAST PAYMENT	0	0%	
66 COPY OF BILL	0	0%	
67 ORDER PHONE DIRECTORY	0	0%	
[68] IDENTIFY UNAUTH CALL	4	1%	
69 GET 800 # TO IDENTIFY UNAUTH CALLS-ETC.	3	1%	
[70]			
AGENT CALL SUMMARY: (PROBLEM + SOLUTION)			
71			
72			
73			
74 COULD THIS HAVE BEEN DONE IN MK/TB	24	5%	
75		0,0	
76 I. DID AGENT PERFORM AUTOMATED FUNCTIONS?	25	6%	
77 [INDICATE WHICH ONES]	20	0,0	
78 PAYMENT CENTER LOCATION	0	0%	
79 PAYMENT CENTER HOURS	0	0%	
80 PAYMENT MAILING ADDRESS	- 0	0%	
	9	2%	
81 ACCOUNT INFORMATION			
82 ESTABLISH ACCT USING PIN	0	0%	
83 PAYMENT ARRANGEMENTS	5	1%	
84 ENTER DETAILS OF LAST PAYMENT	0	0%	
85 COPY OF BILL	5	1%	
86 ORDER PHONE DIRECTORY	1	0%	
87 IDENTIFY ABC UNAUTH CALL	5	1%	
88 IDENTIFY XYZ ETC. UNAUTH CALL	0	0%	
89			
90 II. DID AGENT DO POTENTIALLY AUTO FUNCTIONS	? 16	4%	
91 [INDICATE WHICH ONES]			
92 FIND TOLL CALL RANGE	8	0%	
93 REQUEST CALLING CARD		3,70	
94 GET VOICE MAIL ACCESS #	3	0%	
95 GET 3+2 DIGIT NUMBER ON BILL	2	0%	
96 GET INFO ON RATES-BY MAIL OR SEE DIRECT	- 2		
	0		
97 GET ADDRESS FOR WRITING TO REFUTE BILL	1 0	U%]	

01-4004A; Patrick Peterson et al. LUGGRALIC GOSCOCIO APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

$\overline{}$	21710			
-	Α	С	D	E
	OTHER: (POTENTIALLY AUTOMATABLE)		0%	
99				
	III. DID AGENT DO NON-AUTOMATED FUNCTIONS?	220	49%	
	[INDICATE WHICH ONES]			
	PAYMENT ARRANGEMENTS	5	1%	
	NEW SERVICE- EXPLAINS 2 PARTS NEEDED	21	5%	
	NEW SERVICE FOLLOW UP (NOT DISCONNECT)	10	2%	
105	CHECK ON STATUS OF PENDING ORDER	6	0%	
106	SALES (PKGS, SERVICES, LINES, JACKS, ETC)	65	15%	
	SALES (REMOVE FEATURE- AGENT ASKS WHY)	16	4%	
	DISCONNECT (AND FORWARD CALLS)	9	2%	
	EXPLAIN BILL	25	6%	
110	REMOVE UNAUTHORIZED CALL FROM BILL	4	1%	
111	REMOVE OTHER CHARGES FROM BILL	2	0%	
	CONFIRM TODAY'S REPAIR SCHEDULE	3	1%	
	SCHEDULE A VISIT WIHT REPAIRMAN	8	2%	
114	TELL HOW/WHEN TO USE FEATURES THEY OWN	12	3%	
	OTHER	34	8%	
116	WAS THIS CALL CODED ABOVE?	675	579	
117	DID AGENT SEE CALL AS MISDIRECTED?	81	18%	
	DID AGENT TRANSFER THE CALL?	82	18%	
119	IV. IF TRANSFERRED, TO WHAT DESTINATION?	0	0%	
	800-281-8584 MASTER KEY	0	0%	
121	800-275-2355 REPAIR	12	3%	
122	800-287-9933 COLLECTION CENTER	10	2%	
123	800-870-0000 SERVICE SOLUTIONS	0	0%	
124	TPV	1	0%	
125	888-243-9733 TOLL BILLING	9	2%	
126	800-246-2800 UNLAWFUL CALL SOL CTR	0	0%	
127	800-585-6127 INSTALLATION HOTLINE	11	2%	
128	877-525-2375 DSL	2	0%	
129	800-427-9977 "BUSINESS OFFICE"	1	0%	
130	DMC	1	0%	
131	NEW SERVICE FOLLOWUP	1	0%	
132	DISCONNECT	1	0%	
	TELL HOW TO USE FEATURES	1	0%	
	WELCOME CENTER	10	2%	
	BUSINESS ACCOUNTS .	2	0%	
	ISP CALL/VERIZON ONLINE	2	. 0%	
	WIRELESS	3	1%	
	DIFFERENT CARRIER	2	. 0%	
	SUPERVISOR	0	0%	
	OTHER	3	1%	
	TRANSER TO SPANISH AGENT	6	1%	
	WAS TRANSER WARM (AGENT STAYED)?	34	8%	
	DURATION WITH SECOND AGENT?	663	0.292715232	
	FURTHER TRANSFERS?	14	3%	
	IIF YESI		- 070	
	TOTAL NUMBER OF AGENTS INVOLVED	205	9%	
٠٥			0.70	

01-4004A; Patrick Peterson et al. TREF CALLE & SCALE OF APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

	20/40			
147	Α	<u> </u>	D	E
	EXPLAIN:	ļ		
149				
	TOPIC SUMMARY	 		
		_		
	PAYMENT ARRANGEMENT	10		
	NEW SERVICE	21		
	ORDER FOLLOW-UP	16		
	SALES-ADD	65		
	SALES-REMOVE	16		
156	DISCONNECT	9		
157	PHONE DIRECTORY	1		
158	IUNAUTHORIZED CALLS	9		
	BALANCE/COPY	14		
160	OTHER	89		
	REPAIR	11		
	SPANISH	6		1
	REROUTE			1
164		267		
165				—
166				
167				
168				
169				t
170				i
171		1		
172	······································			
173				
	ROUTING SUMMARY	 		
	1 OR 4-3-1 PAY ARRANGMENTS (MASTER KEY)			
176	2-1 ORDER NEW SERVICE (WELCOME CENTER)			
	2-2 NEW SERVICE-FOLLOW-UP			
	3-1 ADD/ADD			
	3-2 ADD/REMOVE			
	3-3 DISCONNECT	 		
	4-1 BILLING/PHONE DIRECTORY			-
				<u> </u>
	4-2 BILLING/UNAUTHORIZED CALLS			
	4-3-2 BALANCE/COPY/LOCATIONS/LAST PAYMENT			
	4-3-3 OTHER			
185	5 REPAIR (REPAIR CENTER)			
	1-2 (SPANISH)			
	ROTARY (INITIAL TIMEOUT)		•	
	INVALID, TIMEOUT, OR "0" ONCE IN IVR			
189	OTHER (UNKNOWN)			

01-4004A; Patrick Peterson et al. 3.4年第943日 金矿 APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

Express Wall NO. EL02940436	
26/43	CONCLUSION
1. CUSTOMER ROUTES SELF IN IVR TO WRONG AGENT 2. AGENT TRANSFERS CUSTOMER IN RESPONSE TO CUSTOMER NEED.	MISROUTING (2 OR MORE AGENTS INVOLVED INSTEAD OF 1)
1. CUSTOMER ROUTES SELF IN IVR TO WRONG AGENT	MISROUTING (WRONG AGENT INVOLVED)
2. AGENT PERFORMS FUNCTION ANYWAY.	
AGENT PERFORMS FUNCTION. FUNCTION IS AVAILABLE IN IVR.	UNDERUTILIZATION OF IVR FUNCTIONALITY.
AGENT PERFORMS FUNCTION FUNCTION NOT CURRENTLY AVAILABLE IN IVR. S. FUNCTION COULD POTENTIALLY BE ADDED	IVR MISSING CRUCIAL FUNCTIONALITY
CUSTOMERS OPTING OUT OF IVR AT FEW POPULAR POINTS. IN DOES NOT PROMPT FOR ID AT THE POINT.	MISSED OPPORTUNITY FOR AUTOMATED CUSTOMER DATA INPUT
1. AGENT STAYS ON THE LINE DURING TRANSER 2. POLICY DOES NOT ADVOCATE A "WARM TRANSFER"	POSSIBLE POLICY VIOLATION (REGARDING WARM TRANSFERS)
1. AGENT STAYS ON THE LINE DURING TRANSFER 2. TIME ON HOLD WITH CUSTOMER SUGGESTS AGENT NOT USING SPECIAL QUEUE FOR TRANSFER	POSSIBLE POLICY VIOLATION (REGARDING USE OF FAST QUEUE FOR AGENT TRANSFERS)
1. # CUSTOMERS REMAINING SILENT IN IVR 2. PERCENTAGE OF ROTARY USERS KNOWN 3. IF 1 SUBSTANTIALLY EXCEEDS 2	CUSTOMERS REFUSING TO PLAY THE GAME
1. # COSTUMERS COOPERATING IN IVR 2. # CUSTOMERS GETTING READOUT BEFORE ABANDONING IF 1 SUBSTANTIALLY EXCEEDS 2	CUSTOMERS RECEIVING NO BENEFIT FROM IVR THOUGH WILLING TO TRY
1. # CALLS 2. # CALLERS COMPLETING AT LEAST 1 FUNCTIONS IN IVR (INCLUDING GETTING READOUT) AND NOT GOING TO AGENT IF 1 SUBSTANTIALLY EXCEEDS 2	LOW "COMPLETE-SELF-SERVE" RATE

01-4004A; Patrick Peterson et al. ACCOSTALL & OBOMOR APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

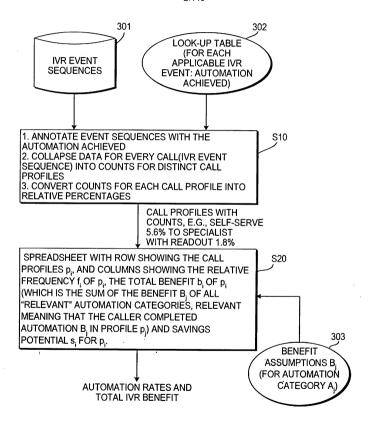


FIG. 7

01-4004A; Patrick Peterson et al.

APPARATUS AND METHOD FOR ANALYZING ROUTING
OF CALLS IN AN AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404386US

28/43

CALL PROFILE (P _j)	TRAFFIC (fi)		AUTOMATION (Bji)	(Bjt)		BENEFIT (A	BENEFIT (AGENT SECS)
	CALLS	% CALLS	ACCOUNT #	ROUTING	% CALLS ACCOUNT # ROUTING INFO DELIVERY	ONE CALL	AVERAGE
FULLY-AUTOMATED CALLS	72	2.0%	∢	œ	_	105	2.1
TRANSFERS TO SPECIALIST AFTER INFORMATION READOUT	_	%0:0	A	œ	_	105	0.0
TRANSFERS TO FLOOR AFTER INFO READOUT	. 38	1.0%	А			55	9:0
TRANSFERS TO SPECIALIST W/ID	849	23.4%		В		40	6.3
TRANSFERS TO FLOOR W/ ID	1008	27.7%	А			15	4.2
TRANSFERS TO FLOOR W/O ID	591	16.3%					
MISROUTED TO SPECIALIST W/ ID	389	10.7%	¥	œ		-25	-2.7
MISROUTED TO SPECIALIST W/O	9	0.2%		Ą		40	-0.1
ABANDONS	681	18.7%			·		
TOTAL	3636	100.0%	41.5%	14.5%	3.1%		13.4
							1

FIG 8

	4		
VOCATEGODY	CALLEK	INFORMATION DELIVERY	"d", O'T'E' O'C
WALLOW CALLGON!	IDENTIFICATION ("A")	("I")	KOUTING ("K")
SSUMED BENEFIT	Ļ	Ş	
(AGENT SECS)	CI	40	40

01-4004A; Patrick Peterson et al. 100101110 . 1330102 APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

ALITOMATABLE TRANSACTIONS	#OCCURRENCES	TIME SPENT	FREDIENCY	SAVINGS	AUTOMATION
A CONTRACT OF A					י אוניים איניים
ACCOUNT_BALANCE	88	15.72	71.5%	5.9	_
NEW_PAYMENT_ARRANGEMENT	56	20.94	13.7%	2.9	-
CURRENT_PAYMENT_ARRANGEMENT	6	22.08	2.2%	0.5	_
ZIP_CODE	2	9.48	0.5%	0.0	∢
PAYMENT_LOCATION	18	21.3		6.0	_
BALANCED_PAYMENT_PLAN_AMOUNT ·	9	21.8	1.5%	0.3	_
RULES_12_AND_22	11	13.5		0.4	_3
NEW_APPOINTMENT_DATE_TIME	84	14.51	20.5%	3.0	80/4 ≪
IS_GAS_APPLIANCE	က	24.75		0.2	3 ∢
IS_NOT_GAS_APPLIANCE	3	9.22		0.1	∢
NEW_APPOINTMENT_CONFIRMATION_TELEP	82	18.26	20.0%	3.7	∢
NEW_APPOINTMENT_LOCATION	99	15.19		2.5	∢
NEW_APPOINTMENT_DOG	22	11.72	13.9%	1.6	∢
NEW_APPOINTMENT_MULTI_OR_SINGLE		0	%0:0	0.0	V
NEW_APPOINTMENT_ADULT_PRESENT	5	5.29	1.2%	0.1	∢
APPOINTMENT_DETAILS_CONFIRMATION	. 13	36.14	3.2%	1.1	⊢
TOTAL NUMBER OF ANNOTATED CALLS	409			23.1	
%HANDLED BY AGENT 72%		WEIGHTE	WEIGHTED OPPORTUNITY: 16.6	r: 16.6	

FIG. 10

01-4004A; Patrick Peterson et al. LIDOSUPLIC = 030462 APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

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CUSTOMER CONTACT TYPE	% CALLS	CUSTOMER ID	ROUTING	INFO DELIVERY TRANSACTION	TRANSACTION
CUSTOMER SERVICE	8.7%	×			
BALANCE BILLING	36.7%	×	×	×	
PAYMENT ARRANGEMENTS	13.0%	×	×	×	×
PAYMENT OPTIONS	4.0%	×	×	×	
TURN ON	3.0%				
RATES	1.3%		×	×	
STOP SERVICE	3.5%	×			
SERVICE .	11.5%	×			
APPOINTMENT	16.5%	×	×	×	×
EMERGENCY	1.8%	×			
TOTAL/UPPER BOUNDS	100.0%	95.7%	71.5%	71.5%	29.5%

AUTOMATION CATEGORIES

HOW TO TRANSFORM UPPER BOUNDS ON AUTOMATION TO AGENT TIME SAVING OPPORTUNITIES: <u>7</u> 8 8 28.6 3.575 5 14.355 BENEFIT ASSUMPTION (AGENT SECS PER CALL) BENEFIT (AGENT SECS)

95.7% x 15 = 14.355

TOTAL OPPORTUNITY

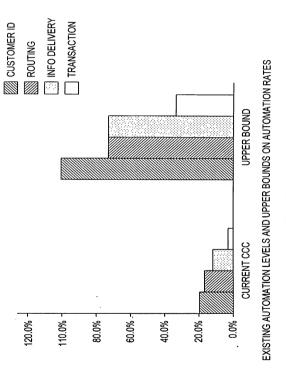
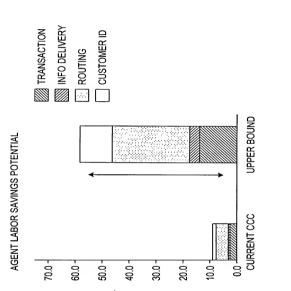
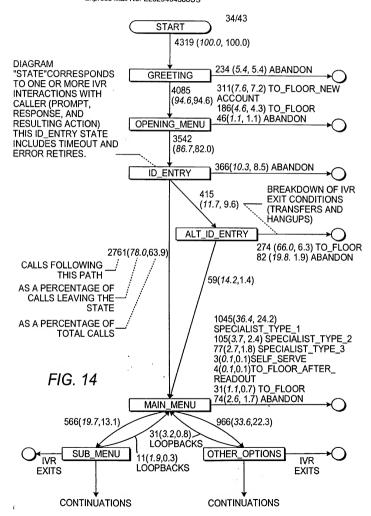


FIG. 12



12 13

01-4004A; Patrick Peterson et al. LOUDIFALO # OBONIO CONTROL OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US



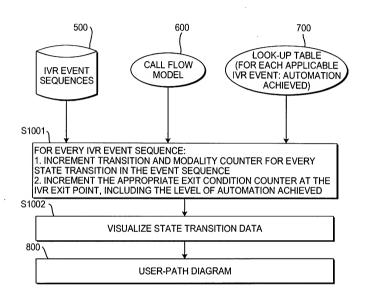
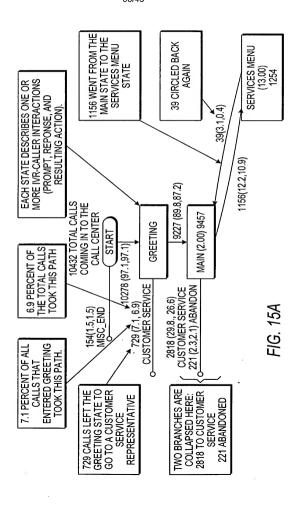


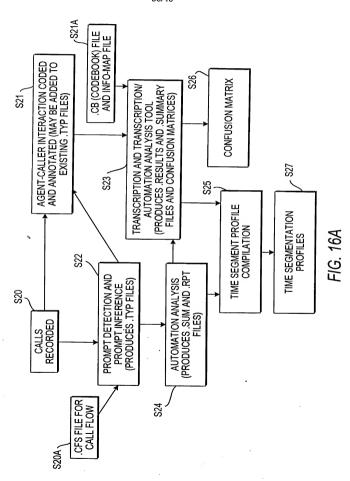
FIG. 15



01-4004A; Patrick Peterson et al. 100740-111-030102
APPARATUS AND METHOD FOR ANALYZING ROUTING
OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

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TRUE CALL TYPE (FROM AGENT INTERACTION)



LOUVERSOUS OF THE

01-4004A; Patrick Peterson et al. APPARATUS AND METHOD FOR ANALYZING ROUTING OF CALLS IN AN AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404386US

_	_	_	_	_		_	_	_			_		_	_	_	_	_	38	1/43	<u> </u>	_															
I	FIRST TOPIC	STRT	PAY-CHG	PAY-WAK	PAY-MAK	ECI	RSTR	ОТН	PAY-MAK	PAY-REV	PAY-WAK	CHNG	PAY-MAK	CHNG	PAY-MAK	PAY-MAK	PAY-MAK	2	STRT	BAL	PAY-MAK	PAY-MAK	PAY	OTH	PAY-MAK	RSTR	RSTR	STRT	PAY-MAK	STRT	PAY-MAK	PAY-MAK	PAY-REV	PAY-MAK	BIL	PAY-MAK
9	FIRST AGENT																											32				_	_		3	4
_	FIRST AGENT																																			
	IVR ROUTING DEST FIRST AGENT FIRST AGENT FIRST TOPIC	TURNON	YMENTX	YMENTX	BALANCEBILLING	BALANCEBILLING	BALANCEBILLING	BALANCEBILLING	CUSTOMERSERVICE	CUSTOMERSERVICE	YMENTX	TURNON	YMENTX	TURNON	BALANCEBILLING	YMENTX	CUSTOMERSERVICE	ANCEBILLING	TURNON	PAYMENTX	MENTX	BALANCEBILLING	/MENTX	CUSTOMERSERVICE	CUSTOMERSERVICE	APPOINTMENT	CUSTOMERSERVICE	TURNON	CUSTOMERSERVICE	RATES	CUSTOMERSERVICE	MENTX	MENTX	PAYMENTX	BALANCEBILLING	CUSTOMERSERVICE
ш	Δ	T	CONFIRM ADDR PA	TELEPHONE,CO PA		B/		Г	ರ	ಶ	CONFIRM_ADDR PA	11	CONFIRM ADDR PA	12	BA	CONFIRM ADDR PA	3	TELEPHONE,CO BA	П	TELEPHONE PA	CONFIRM_ADDR PA	TELEPHONE BA	TELEPHONE,CO PA	S	3	AP	3	12	3	Æ	3	ONFIRM ADDR PA	ONFIRM ADDR PA		BAI	no.
٥	MATION	RULES 12 AND 22 READOUT	CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	CALLING_FROM_SERVICE_LOCATION, TELEPHONE, CO PAYMENTX	CALLING_FROM_SERVICE_LOCATION,CONFIRM			CALLING_FROM_SERVICE_LOCATION, TELEPHONE			ROM_SERVICE_LOCATION,(RULES 12 AND 22 READOUT	ROM_SERVICE_LOCATION,(AND22_READOUT		CALLING_FROM_SERVICE_LOCATION,CONFIRM_ADDR PAYMENTX		ROM_SERVICE_LOCATION.	RULES 12 AND 22 READOUT	ROM_SERVICE_LOCATION,	ROM_SERVICE_LOCATION,C	ROM_SERVICE_LOCATION,	ROM SERVICE LOCATION,					AND_22_READOUT		RULES 12 AND 22 READOUT		CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR_PAYMENTX	ROM SERVICE LOCATION,C	ROM SERVICE LOCATION,		
	IVR INFORMATION			CALLING	CALLING			CALLING			CALLING	RULES 12	CALLING	RULES 12		CALLING		CALLING	RULES 12	CALLING	CALLING	CALLING	CALLING					RULES 12		RULES 12		CALLING	CALLING	CALLING		
၁	IVR ROUTING	P-AGT_STARTHOMESERVICE	P-AGT_CSRFROMNEWPAY	P-AGT_NEWPAYMENTARRAN	P-AGT_XFERFROMTELEPHON	P-AGT_CSRFROMBILLING	P-AGT_CSRFROMBILLING	P-AGT_DUPSTATFAILURE	P-AGT_CSRFROMMAIN	P-AGT_CSRFROMMAIN	P-AGT_XFERFROMCONFIRMA CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	P-AGENT_START_COMM	P-AGT_NEWPAYMENTARRAN CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	P-AGT_STARTCLEANANDSHO RULES_12_AND22_READOUT	INCOMPLETE P-AGT_CSRFROMBILLING	P-AGT_CSRFROMNEWPAY	P-AGT_CSRFROMMAIN	P-AGT_CSRFROMDUPLICATE CALLING_FROM_SERVICE_LOCATION, TELEPHONE, CO BALANCEBILLING	P-AGT_STARTGASHOME	P-AGI_XFERFROM IELEPHON CALLING_FROM_SERVICE_LOCATION, TELEPHONE	P-AGT_NEWPAYMENTARRAN CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	P-AGT_XFERFROMTELEPHON CALLING_FROM_SERVICE_LOCATION, TELEPHONE	P-AGT_XFERFROMCONFIRMA CALLING_FROM_SERVICE_LOCATION, TELEPHONE, CO PAYMENTX	P-AGT_CSRFROMMAIN	P-AGT_CSRFROMMAIN	P-AGENT-ID-MAKE-APPOINTM	P-AGT_CSRFROMMAIN	P-AGT_STARTHOMESERVICE RULES_12_AND_22_READOUT	P-AGT_CSRFROMMAIN	P-AGEND-MAIL ELEC R	P-AGT CSRFROMMAIN	P-AGI KEFUSEDNEWPAY M	P-AGI_INCORRECTNOCURRE[CALLING_FROM_SERVICE_LOCATION,CONFIRM_ADDR_PAYMENTX	P-AGT_XFERFROMTELEPHONICALLING_FROM_SERVICE_LOCATION, TELEPHONE	P-AGI_CSRFROMBILLING	P-AGI_CSRFROMMAIN
В	IVR EXIT	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE					INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	NCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	NCOMPLETE	INCOMPLETE	NCOMPLETE	NCOMPLETE	INCOMPLETE	NCOMPLETE	NCOMPLETE	INCOMPLETE	INCOMPLETE	NCOMPLETE	NCOMPLETE	INCOMPLETE	INCOMPLETE	NCOMPLE IE	INCOMPLEIE
¥	FILENAME	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/DAM/TRANS/	/D4M/TRANS/	12 /D4M/TRANS/	3 /D4M/TRANS/	14 /D4M/TRANS/	15 /D4M/TRANS/	16 /D4M/TRANS/	DAMTRANS	18 /D4M/TRANS/		ZU /U4M/ IKANS/	DAM/TRANS/	DAMIRANS	DAM/TRANS/	/D4M/IKANS/		Z6 /D4M/TRANS/				/D4M/IKANS/	/U4M/IKANS/	/D4M/IKANS/	/U4M/ IKANS/	/D4M/IRANS/	D4M/ KANS	30 JUAWI KANS
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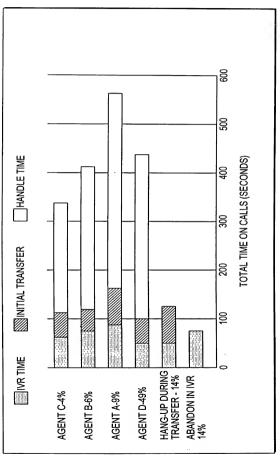


FIG. 18

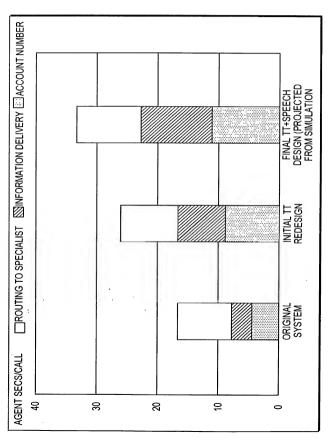
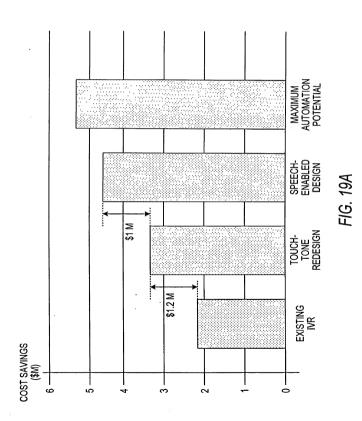


FIG. 19



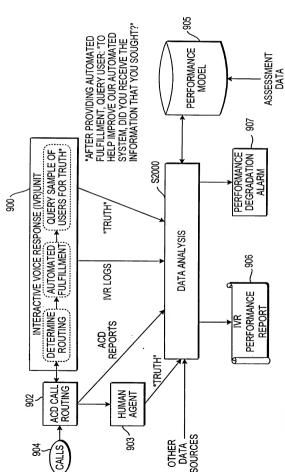


FIG. 20